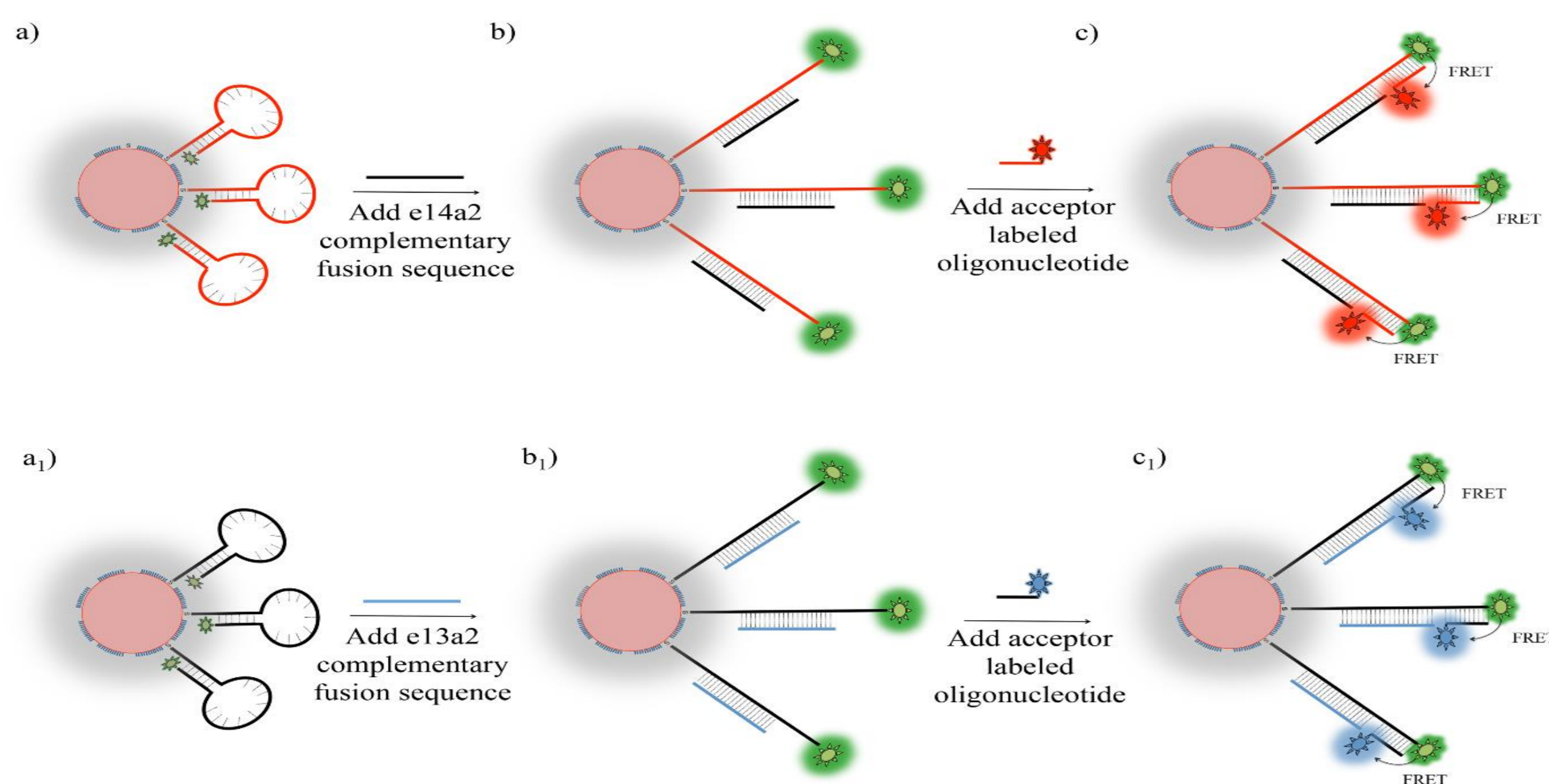
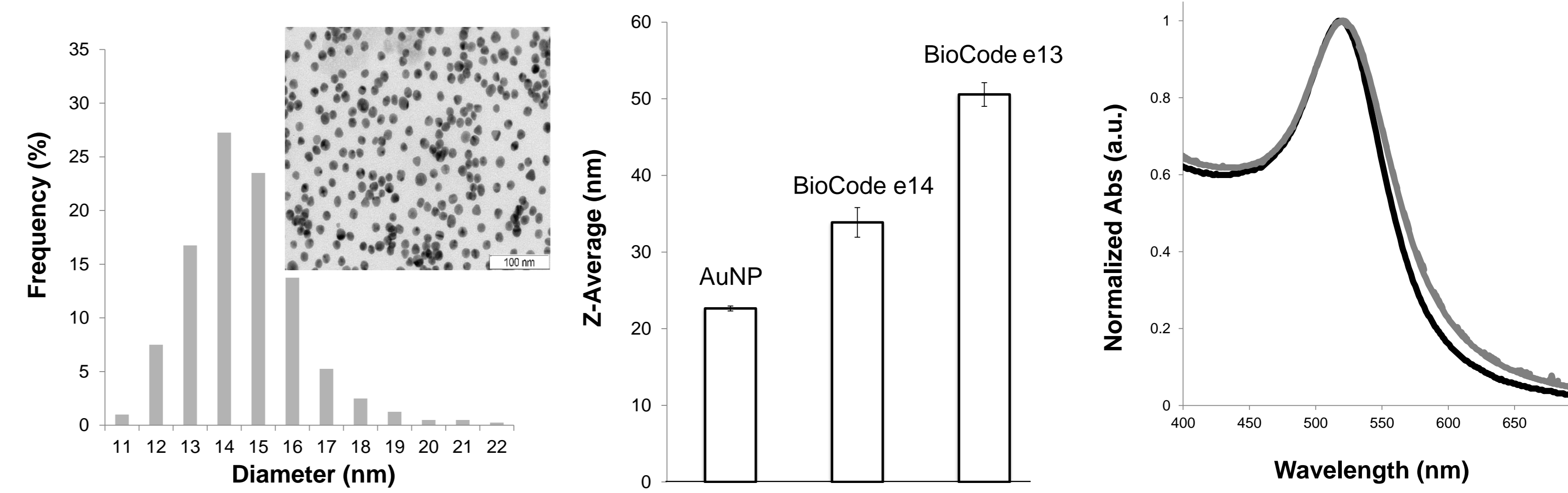


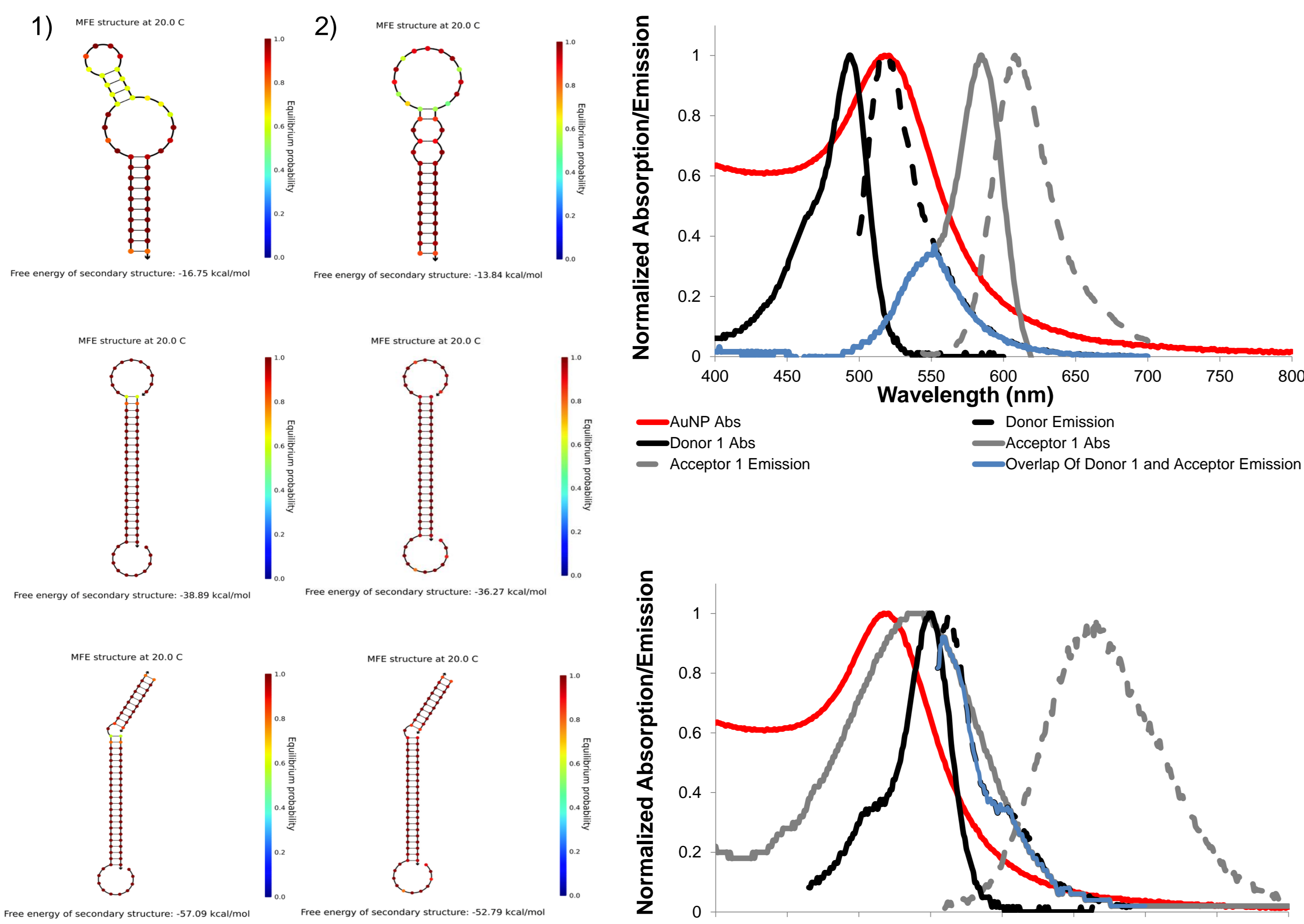
Developed methodology



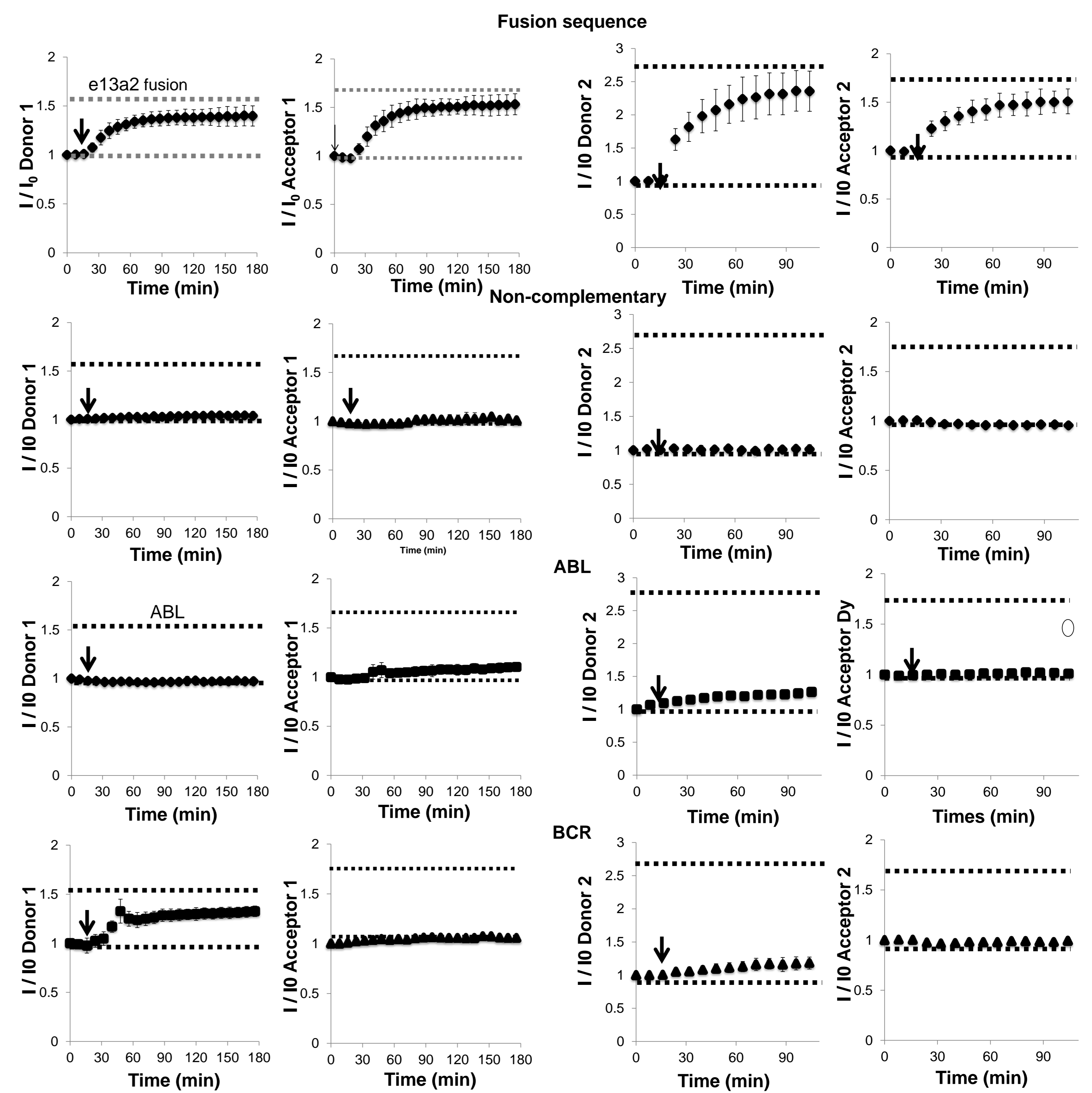
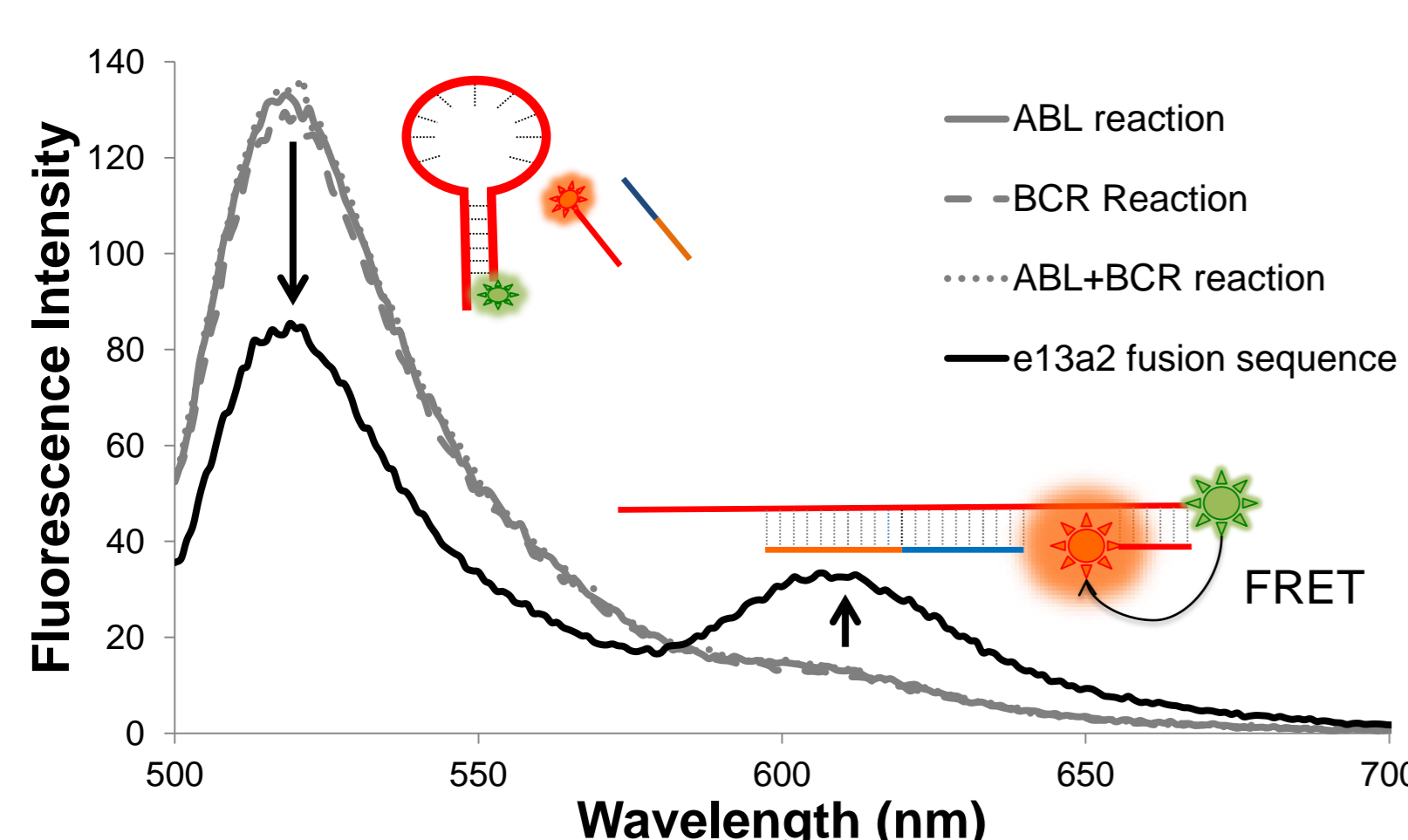
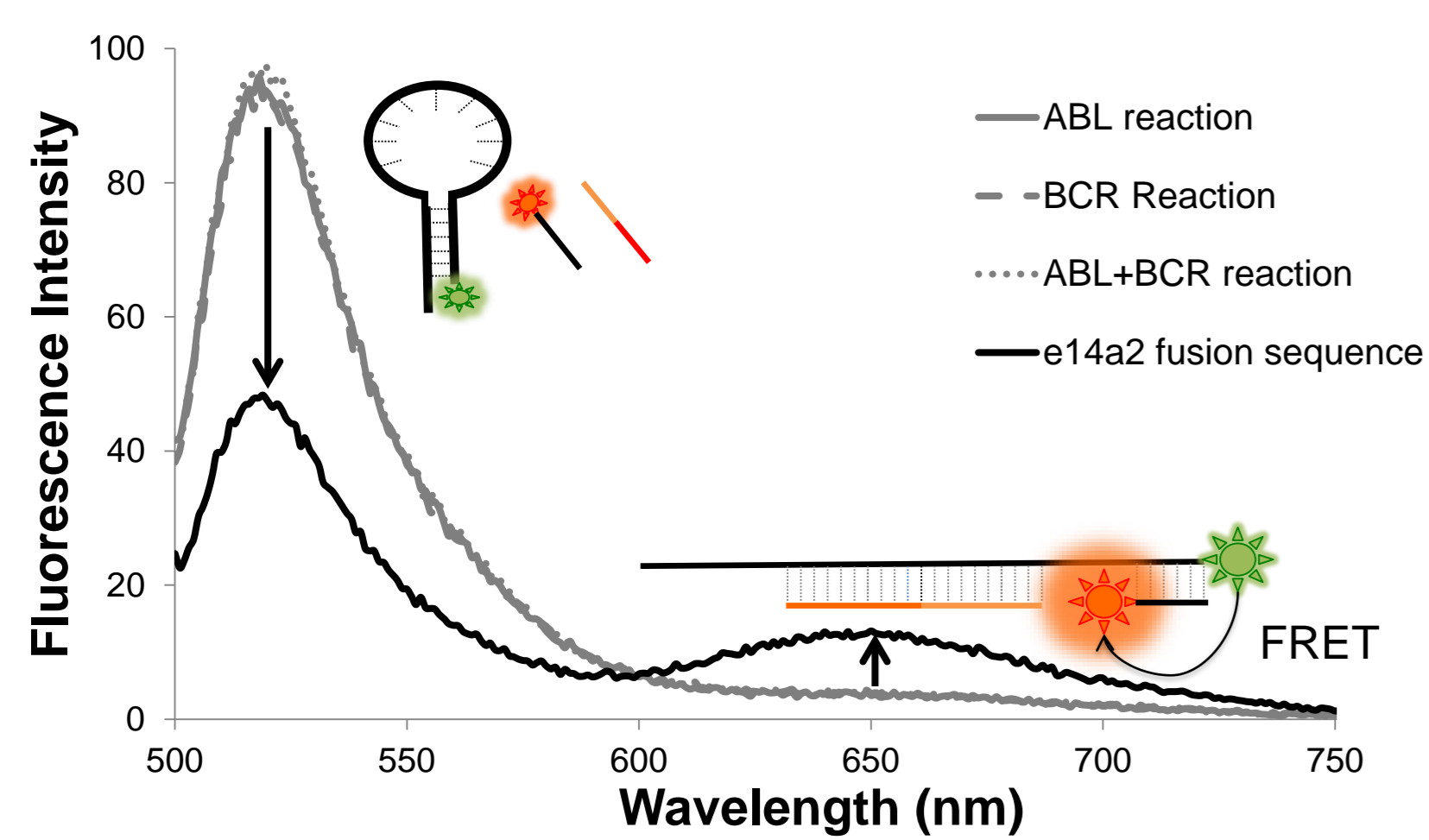
BioCode - Characterization and target detection



Methods - Sequence design and fluorophore selection



In Silico secondary structure and hybridization assessment of complementary target an acceptor labeled oligonucleotide for both BioCode. Column 1 – BioCode-e13; Column 2 – BioCode-e14



BioCode-e13

BioCode-e14

Conclusions

- ✓ BioCode allows for additional information in a single assay.
- ✓ Spectral codification modulated by AuNPs for enhanced quenching effect and recognition efficacy.
- ✓ The BioCode is a single-step detection strategy based on a two successive hybridization events.
- ✓ BioCode Au-nanobeacons - selective detection of similar targets in solution.

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